Aeronautics Educator Guide		
2009 Science		
Essential Knowledge and Skills		
Texas Science			
Grade 2			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	TX	SCI.2.2.A	ask questions about organisms, objects, and events during observations and investigations;
Air Engines (12-16)	TX	SCI.2.2.D	record and organize data using pictures, numbers, and words;
Where is North? The Compass Can Tell Us (87-90)	TX	SCI.2.3.B	make predictions based on observable patterns; and
Dunked Napkin (17-22)	TX	SCI.2.2.B	plan and conduct descriptive investigations such as how organisms grow;
Dunked Napkin (17-22)	TX	SCI.2.3.B	make predictions based on observable patterns; and
Paper Bag Mask (23-28)	TX	SCI.2.3.B	make predictions based on observable patterns; and
Wind in Your Socks) (29-35)	TX	SCI.2.2.C	collect data from observations using simple equipment such as hand lenses, primary balances, thermometers, and non-standard measurement tools;
Wind in Your Socks) (29-35)	TX	SCI.2.2.D	record and organize data using pictures, numbers, and words;
Delta Wing Glider (60-68)	TX	SCI.2.3.B	make predictions based on observable patterns; and
Aeronautics Educator Guide		
2009 Science		
Essential Knowledge and Skills		
Texas Science			
Grade 3			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	TX	SCI.3.2.B	collect data by observing and measuring using the metric system and recognize differences between observed and measured data;
Air Engines (12-16)	TX	SCI.3.6.B	demonstrate and observe how position and motion can be changed by pushing and pulling objects to show work being done such as swings, balls, pulleys, and wagons; and
Flight: Interdisciplinary Learning Activities (76-79)	TX	SCI.3.2.C	construct maps, graphic organizers, simple tables, charts, and bar graphs using tools and current technology to organize, examine, and evaluate measured data;
Where is North? The Compass Can Tell Us (87-90)	TX	SCI.3.2.A	plan and implement descriptive investigations, including asking and answering questions, making inferences, and selecting and using equipment or technology needed, to solve a specific problem in the natural world;

Activity/Lesson	State	Standards	
Plan to Fly There (97-106)	TX	SCI.3.2.C	construct maps, graphic organizers, simple tables, charts, and bar graphs using tools and current technology to organize, examine, and evaluate measured data;
We Can Fly, You and I: Interdisciplinary Learning (107-108)	TX	SCI.3.2.C	construct maps, graphic organizers, simple tables, charts, and bar graphs using tools and current technology to organize, examine, and evaluate measured data;
Dunked Napkin (17-22)	TX	SCI.3.2.A	plan and implement descriptive investigations, including asking and answering questions, making inferences, and selecting and using equipment or technology needed, to solve a specific problem in the natural world;
Dunked Napkin (17-22)	TX	SCI.3.2.D	analyze and interpret patterns in data to construct reasonable explanations based on evidence from investigations;
Dunked Napkin (17-22)	TX	SCI.3.2.E	demonstrate that repeated investigations may increase the reliability of results; and
Paper Bag Mask (23-28)	TX	SCI.3.2.A	plan and implement descriptive investigations, including asking and answering questions, making inferences, and selecting and using equipment or technology needed, to solve a specific problem in the natural world;
Paper Bag Mask (23-28)	TX	SCI.3.2.B	collect data by observing and measuring using the metric system and recognize differences between observed and measured data;
Air: Interdisciplinary Learning Activities (36-39)	TX	SCI.3.8.A	observe, measure, record, and compare day-to-day weather changes in different locations at the same time that include air temperature, wind direction, and precipitation;

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Grade 4			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	TX	SCI.4.2.B	collect and record data by observing and measuring, using the metric system, and using descriptive words and numerals such as labeled drawings, writing, and concept maps;
Air Engines (12-16)	TX	SCI.4.2.D	analyze data and interpret patterns to construct reasonable explanations from data that can be observed and measured;
Air Engines (12-16)	TX	SCI.4.8.A	measure and record changes in weather and make predictions using weather maps, weather symbols, and a map key;
Flight: Interdisciplinary Learning Activities (76-79)	TX	SCI.4.2.C	construct simple tables, charts, bar graphs, and maps using tools and current technology to organize, examine, and evaluate data;

Making Time Fly (80-86)	TX	SCI.4.3.D	connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists.
Where is North? The Compass Can Tell Us (87-90)	TX	SCI.4.2.A	plan and implement descriptive investigations, including asking well-defined questions, making inferences, and selecting and using appropriate equipment or technology to answer his/her questions;
Plan to Fly There (97-106)	TX	SCI.4.2.F	communicate valid, oral, and written results supported by data.
Dunked Napkin (17-22)	TX	SCI.4.2.A	plan and implement descriptive investigations, including asking well-defined questions, making inferences, and selecting and using appropriate equipment or technology to answer his/her questions;
Paper Bag Mask (23-28)	TX	SCI.4.2.A	plan and implement descriptive investigations, including asking well-defined questions, making inferences, and selecting and using appropriate equipment or technology to answer his/her questions;
Paper Bag Mask (23-28)	TX	SCI.4.2.B	collect and record data by observing and measuring, using the metric system, and using descriptive words and numerals such as labeled drawings, writing, and concept maps;
Wind in Your Socks) (29-35)	TX	SCI.4.2.A	plan and implement descriptive investigations, including asking well-defined questions, making inferences, and selecting and using appropriate equipment or technology to answer his/her questions;
Wind in Your Socks) (29-35)	TX	SCI.4.2.B	collect and record data by observing and measuring, using the metric system, and using descriptive words and numerals such as labeled drawings, writing, and concept maps;
Wind in Your Socks) (29-35)	TX	SCI.4.2.D	analyze data and interpret patterns to construct reasonable explanations from data that can be observed and measured;